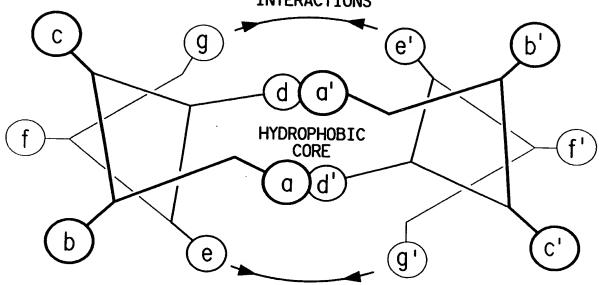
APPROVED	O.G. F	IG.
BY	CLASS	SUBCLASS
DRAFTSMAN		

Q FIG.1 D Φ Ф ပ + 6 ·

FIG.2A

POTENTIAL ELECTROSTATIC INTERACTIONS



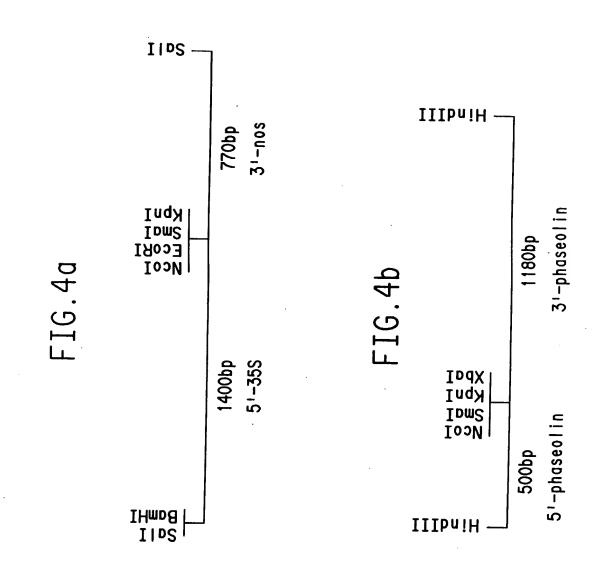
POTENTIAL ELECTROSTATIC INTERACTIONS

ı

APPROVED O.G. FIG.

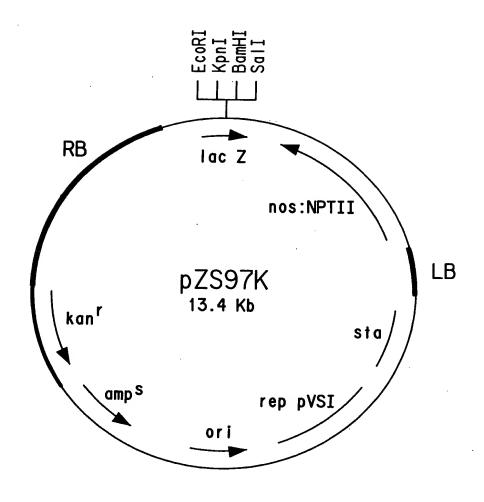
CLASS SUBCLASS

DRAFTSMAN



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG.5



APPROVED			
BY	CLASS SUBCLASS		
DRAFTSMAN			

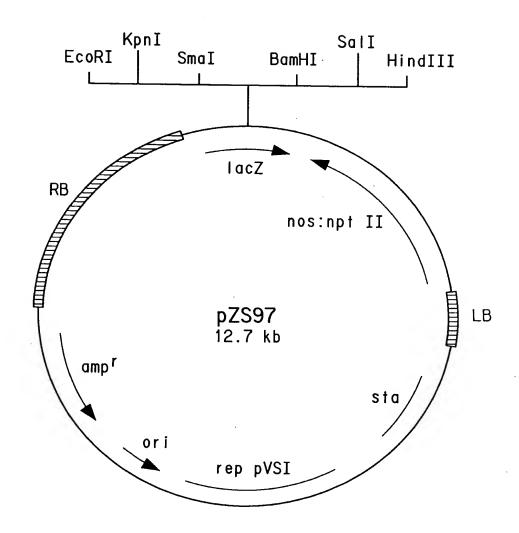


FIG.6

APPROVE	ĒD	O.G. F	IG.
BY		CLASS	SUBCLASS
DRAFTSM	IAN		

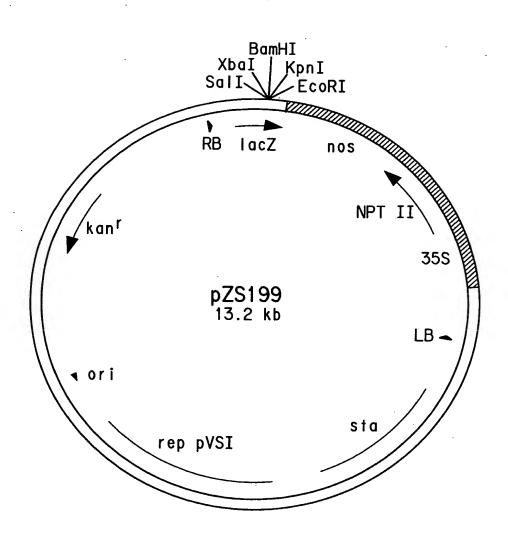


FIG.7A

APPROVED	O.G. FIG.		
BY	CLASS	SUBCLASS	
DRAFTSMAN			

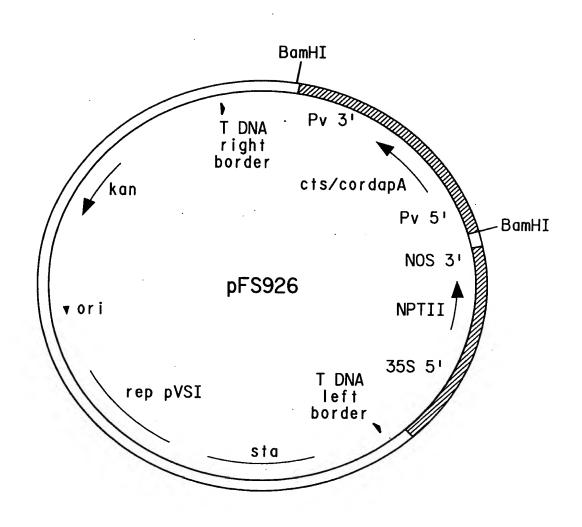


FIG.7B

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

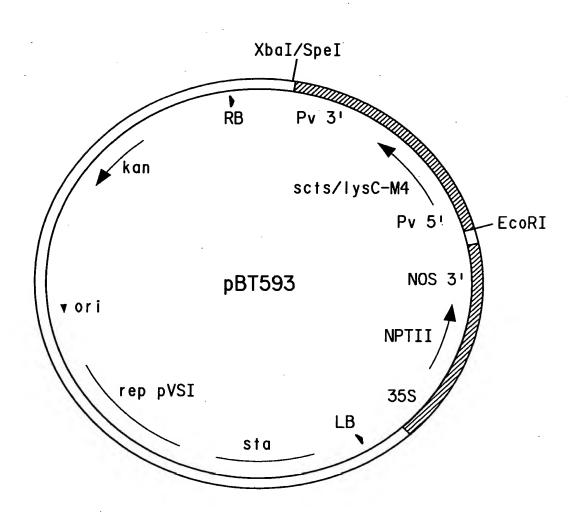


FIG.7C

APPROVED	O.G. FIG.		
BY	CLASS SUBCLASS		
DRAFTSMAN			

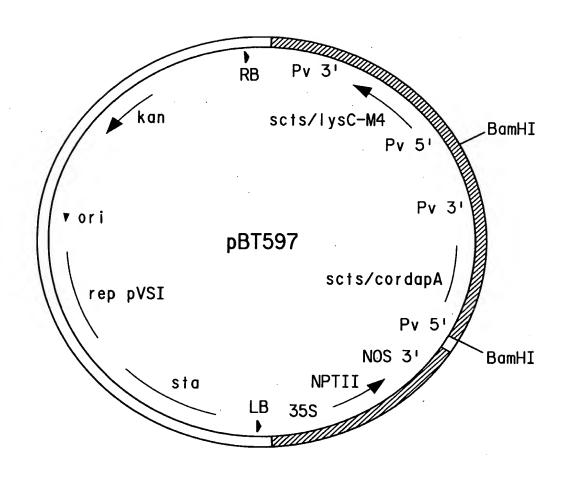


FIG.7D

APPROVED	O.G. FIG.		
BY	CLASS	SUBCLASS	
DRAFTSMAN			

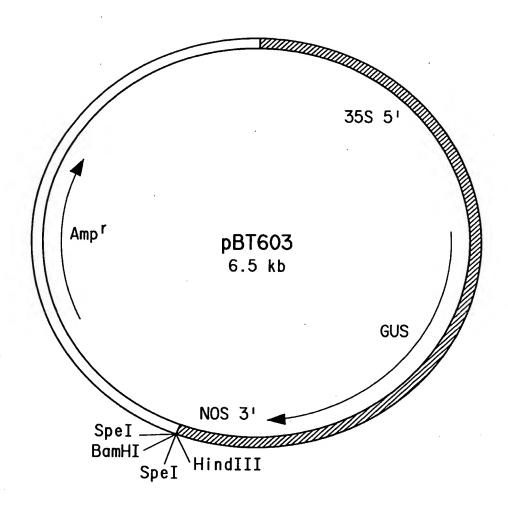


FIG.8A

APPROVED	O.G. FIG.	
BY	CLASS SUBCLASS	
DRAFTSMAN		

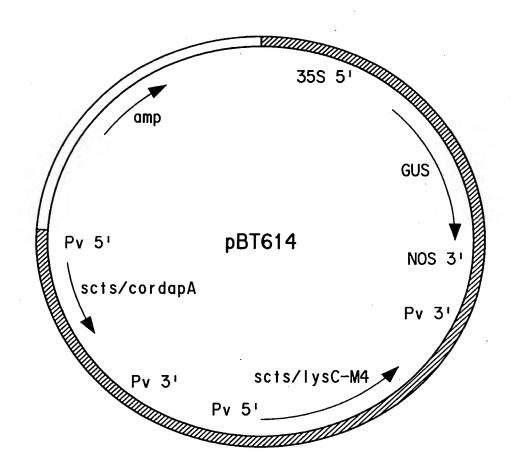


FIG.8B

FIG.9

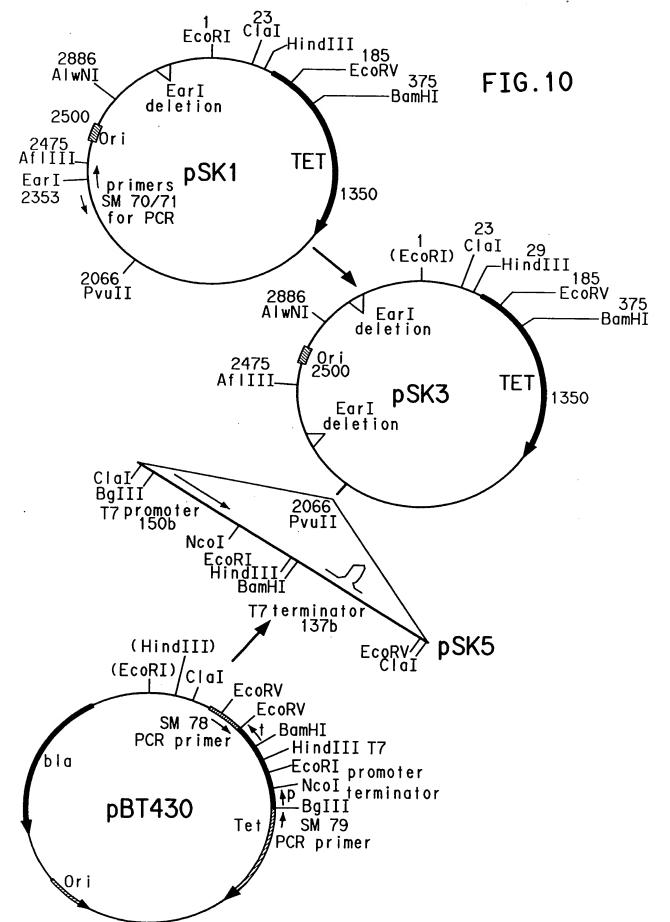
SEQ ID NO:104	19 KKSGVLILGAGRVXRPAADFLASVRTISSQQWYKTYFGADSEEKTDVHVI 68	
S. cerevisiae SDH	: 1 MGKNVLLLGSGFVAQPVIDTLAANDDINVT 30	
	69 VAST.YIKDAKETTERONEAVBIDWEDSESTIKKIOMONISTIKDAST.YIKDAKETIKDAST.	

11: | :| :: |: |: |: || :: | |: || :: | || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || :: || 119 HA 120 |: 80 HP 81

374 TRISTLVDYGKV...GGYSSMAATVGYPVAIATKFVLDGTIKGPGLLAPY 420 1 KHTATLLEFGDIKNGQTTTAMAKTVGIPAAIGALLLIEDKIKTRGVLRPL 50 S. cerevisiae SDH SEQ ID NO:105

421 SPEINDPIMKELKDKYGIYLKEKTVA 446 51 EAEVYLPALDIL.QAYGIKLMEKAE 74 .: |: |: |: || |-||.

The many limit that the many than the proof of the many than the same th



O.G. FIG. CLASS SUBCLASS DRAFTSMAN

Taraballa

FIG.11

ASP718ECORI CT CCTCTTCTACT TCCGCTA, CCTTCTC TTCGACTTCCGCACTATCCATGGCTTAA CATGBAGGAGAAGATGAAGGC CATGGAAGAGAAGATGAAGGCGTGATAGGTACGG E X W X A EARI ш X X A

LIGATE OLIGOS

CCTCCTCTTCTACTTCCGCTA GATGGAGGAGAGATGAAGGC

M X A

П Ж

ليا

Σ

LIGATE TO EARI CUT VECTOR

NCOI

ASP718ECORI

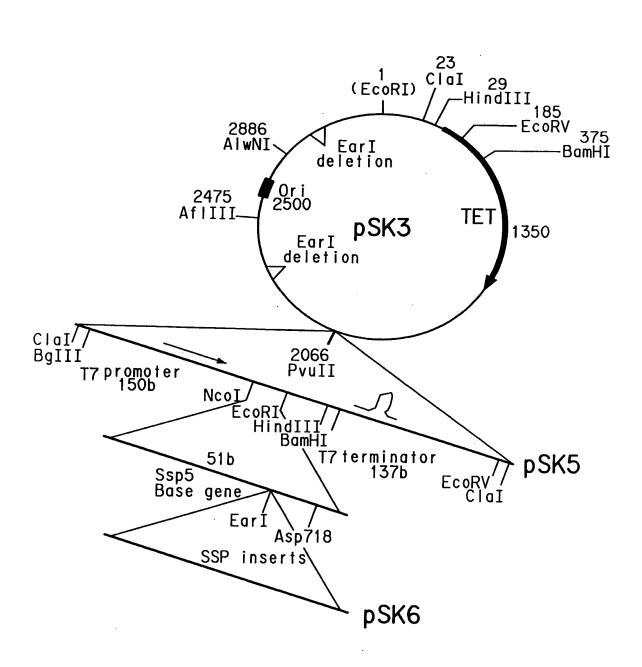
EARI

CT CCTCTTCTACT TCCGCTA CCTCCTCTTCTACTTCCGCTA CCTTCTC TTCGACTTCCGCACTATCCATGGCTTAA C<u>ATG</u>BAGGAGAAGATGAAGGC GATGGAGGAGAAGATGAAGGC GATG<mark>GAAGAGA</mark>AGATGAAGGCG<u>TG</u>ATA<u>EGTACC</u>G M E E K M K A

M X A П Ж ш ≥ M X M E F

APPROVED	O.G. FIG.	
BY	CLASS SUBCLASS	
DRAFTSMAN		

FIG.12



BASE GENE

FIG. 13

ECORI GCTTCTCTTCTACTTCCCAGTACTTCACTATCCATGGCTTAA BSPHI STOP ASP718 ♦ GCTC|GAAGAGAAGATGAAGGTCATGAAGTGATAGGTACCG L E E KMK VMK EARI CTCCTCTTCTACTTTTCTA CATGGAGGAGAAGATGAAAAA

OLIGONUCLEOTIDE INSERTS

CCTTCTTTTCTACTTCCGATACCTCCTGTTCTACTTTACCGAACTCCTTTTCTACTTCTTCGA GCTGGAAGAAAAGATGAAGGCTATGGAGGAGAAGATGAAATGGCTTGAGGAAAAGATGAAGA K M K A M E E K M K W L E E K M K LJ LJ

| OLIGOS LIGATED INTO EARI CUT BASE GENE

CTCCTCTTCTACTTTTCTA CCTTCTTTTCTACTTCCGATACCTCCTGTTCTACTTTACCGAACTCCTTTTCTACTTCTTCGA <u>|CATGG</u>AGGAGAAGATGAAAAA GCTGGAAGAAAAGATGAAGGCTATGGAGGAGAAGATGAAATGGCTTGAGGAAAAGATGAAGA ≥ E X M X W L E EX لنا ≥ LEEKMKA П Х Х ليا ≥

CLONE pSK34 ASP718 ECORI GCTTCTCTTCTACTTCCAGTACTTCACTATCCATGGCTTAA CGAAGAGAAGATGAAGGTCATGAAGTGATAGGTACCG **BSPHI**

ليا

FIG.14a

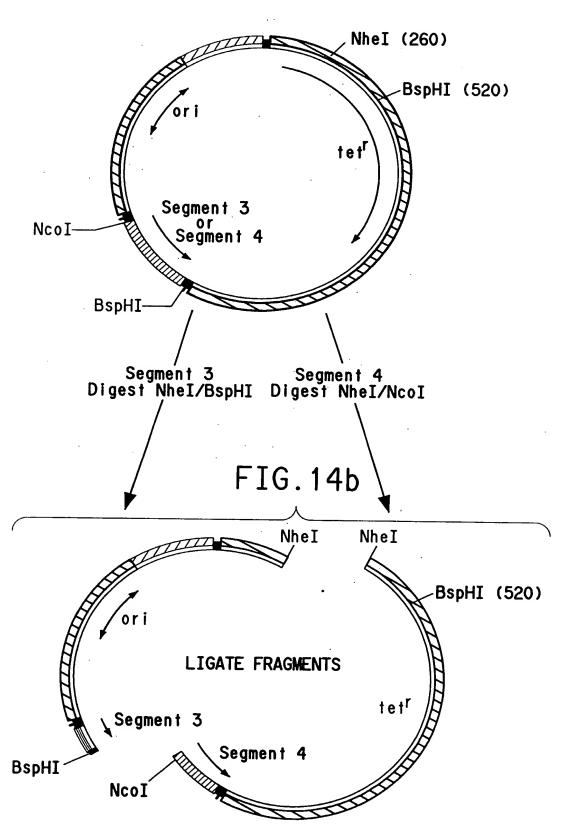
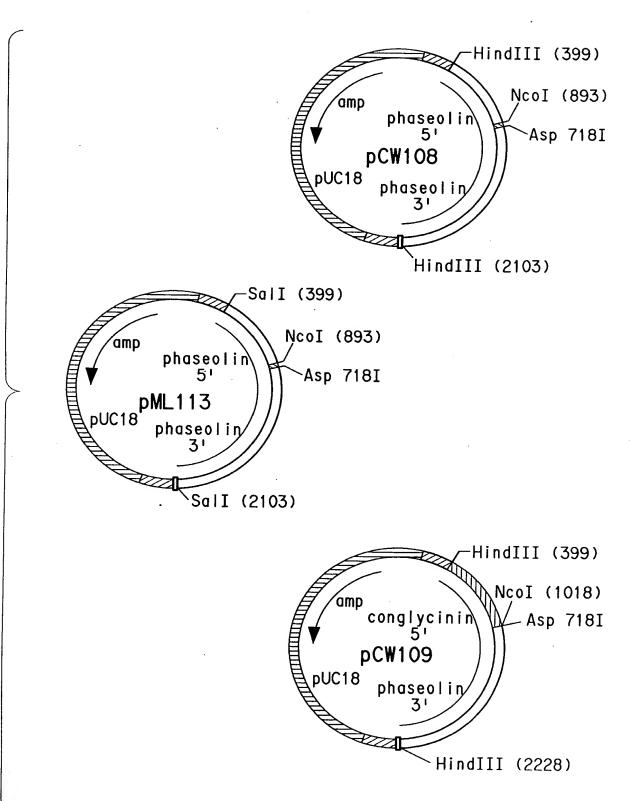


FIG.15



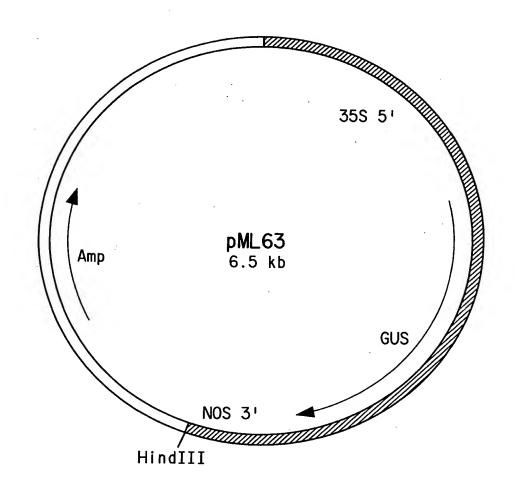


FIG.16

APPROVED O.G. FIG.		
BY	CLASS SUBCLASS	
DRAFTSMAN		

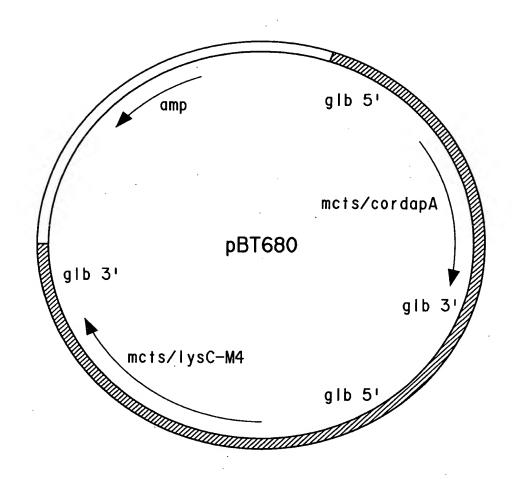


FIG.17

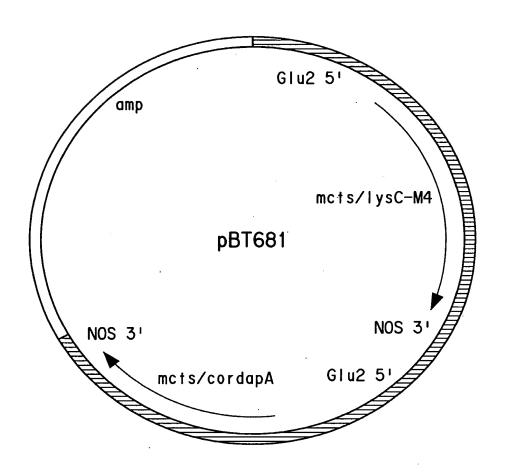


FIG. 18

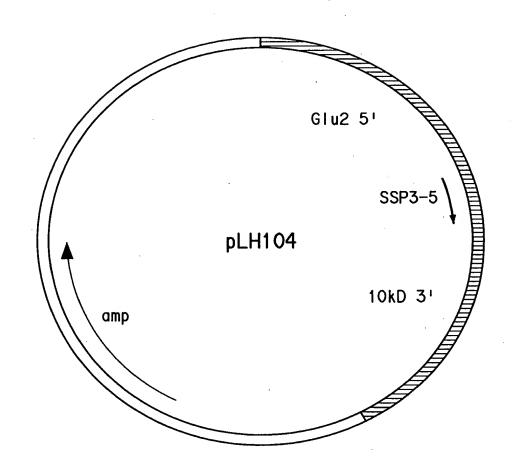


FIG.19

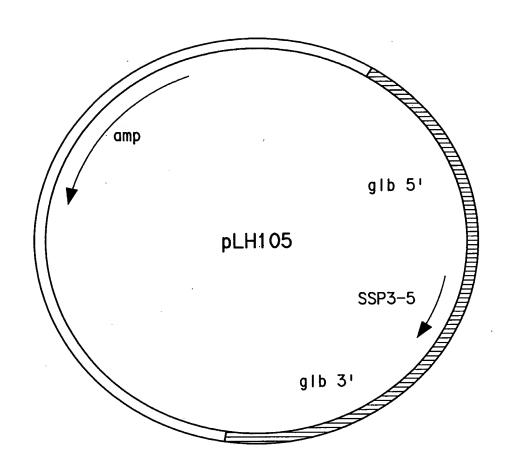


FIG.20

	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

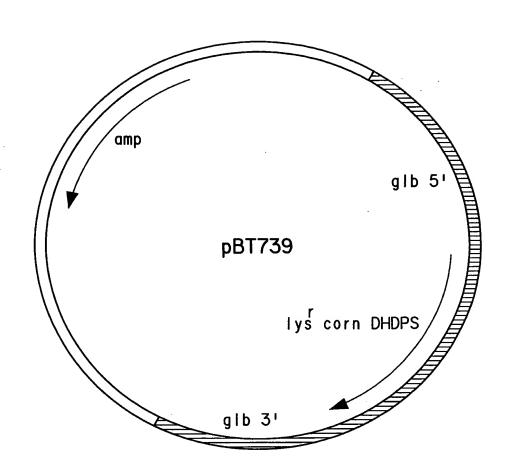


FIG.21

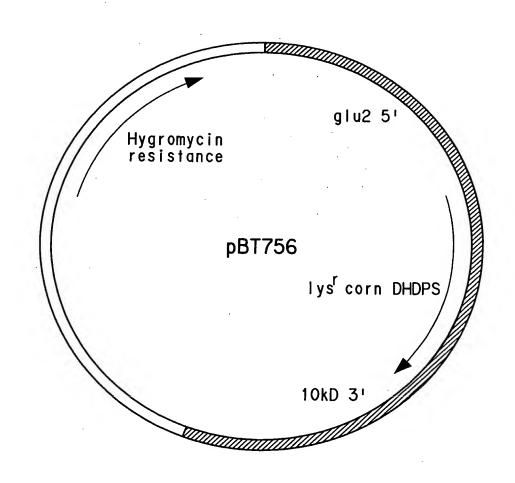


FIG.22